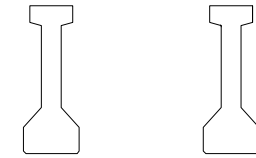
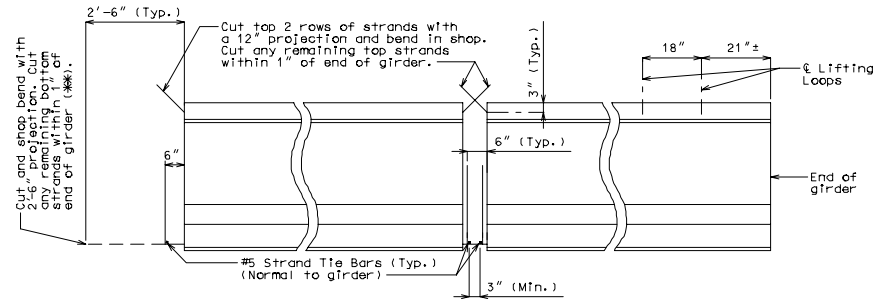


GIRDER DIMENSIONS



GIRDER STRAND ARRANGEMENTS



END BENT

INTERMEDIATE BENT

LOCATION OF LIFTING LOOPS

Concrete for prestressed girders shall be Class A-1 with $f'c = \text{---}$ psi and $f'ct = \text{---}$ psi.

(+) Indicates prestressing strand.

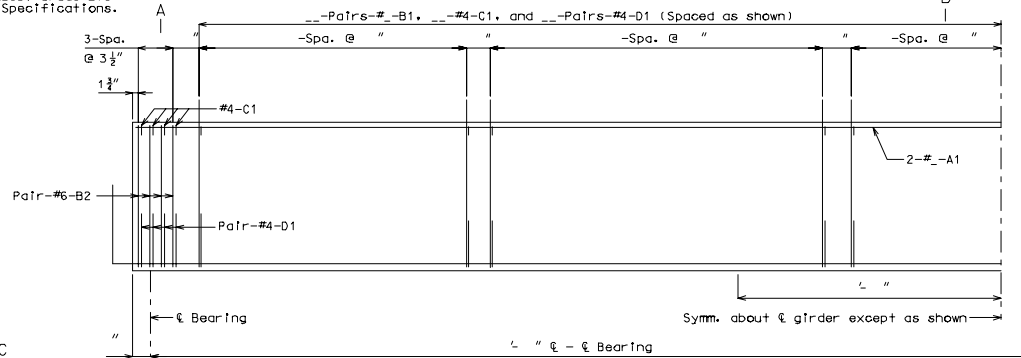
Use --- strands with an initial prestress force of --- kips.

Prestressing tendons shall be uncoated, seven-wire, low-relaxation strands, 1/2 inch diameter conforming to AASHTO M203, Grade 270. See Section 705.4.8 of the Missouri Standard Specifications.

*** At the contractor's option, the location for bent-up strands may be varied from that shown. The total number of bent-up strands shall not be changed.

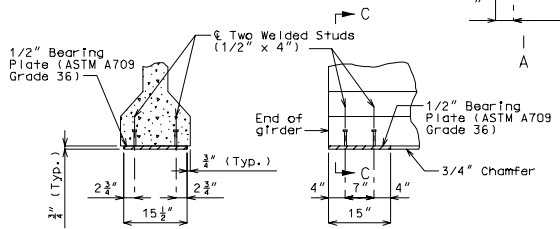
One strand tie bar is required for each layer of bent-up strands except at end bents which require one bar on the bottom layer of strands only. No additional payment will be made if additional strand tie bars are required.

*** At contractor's option, a 1-1/2" to 1-3/4" smooth finish strip is permitted to facilitate placement of joint filler for prestressed panels.



HALF ELEVATION OF GIRDER SPAN (-)

Exterior and interior girders are the same except for coil ties.

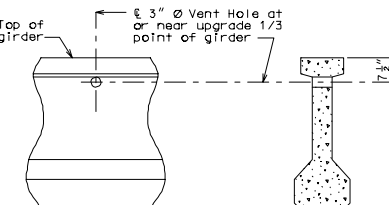


SECTION C-C PART ELEVATION AT END OF GIRDER

BEARING PLATE DETAILS

Galvanize the 1/2" bearing plate (ASTM A709 Grade 36) in accordance with ASTM A123.

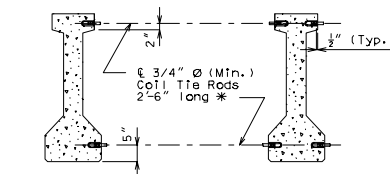
Cost of furnishing, galvanizing, and installing the 1/2" bearing plate (ASTM A709 Grade 36) and welded studs in the prestressed girder shall be included in the price bid for Prestressed Concrete I-girder per each.



PART ELEVATION OF GIRDER

PART SECTION NEAR VENT HOLE

Place vent holes at or near upgrade 1/3 point of girders and clear reinforcing steel or strands by 1-1/2" minimum and steel intermediate diaphragm bolt connections by 6" minimum.



EXTERIOR GIRDERS AT INT. BENTS

EXTERIOR GIRDERS AT END BENTS
INTERIOR GIRDERS AT ALL BENTS

DETAILS OF COIL TIES

BILL OF REINFORCING STEEL - EACH GIRDER				
NO.	SIZE & BAR	ACTUAL LENGTH	SHAPE	BENDING DIAGRAM
XXX	X A1	XX'-XX"	20	
XXX	X B1	5'-2"	11	
16	6 B2	4'-7"	11	
XXX	4 C1	13"	10	
XXX	4 D1	2'-7"	9	

All dimensions in bending diagram are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

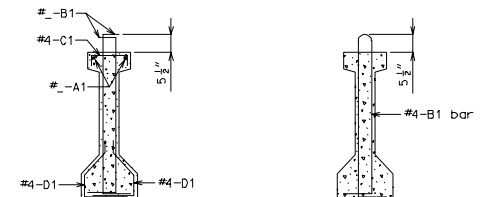
Actual lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be 1".

All reinforcement shall be Grade 60.

The two D1 bars may be furnished as one bar at the fabricator's option.

All B1 bars shall be epoxy coated.



SECTION B-B B1 BAR PERMISSIBLE ALTERNATE SHAPE

Cost of 3/4" Ø coil tie rods placed in diaphragms is included in contract unit price for Prestressed Concrete I-girder.

Coil ties shall be held in place in the forms by slotted wire-setting-studs projecting thru forms. Studs are to be left in place or replaced with temporary plugs until girders are erected, then replaced by coil tie rods.

For location of coil inserts at slab drain, see sheet no. ---

For location of coil ties, see sheets no. --- & ---

The 1-1/2" Ø holes shall be cast in the web for steel intermediate diaphragms. Drilling is not allowed.

For detail of diaphragms, see sheets no. --- & ---

For Girder Camber Diagram, see sheet no. ---

* Length of coil tie rods at exterior girders at end bents = ---

Detalled ---
Checked ---

Note: This drawing is not to scale. Follow dimensions.

Sheet No. --- of ---

COUNTY GDR_3